

Notice of Allowability

Application No.

10/776,620

Examiner

Jayesh A. Patel

Applicant(s)

CURRY ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 08/02/2007.
2. ☒ The allowed claim(s) is/are 1,5-7,11-13,17,18 and 20-22.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 05/12/2004 JP
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

JINGGE WU
SUPERVISORY PATENT EXAMINER

Reasons for Allowance

1. Independent claims 1,7 and 13 are allowable over the closest prior arts Berkner et al. (US 20040146199) and Siegel et al (US 20050063615).Regarding Claims 1 for example Berkner discloses a method for generating a thumbnail image by discarding data of a portion of lines of an original image of an original document; and combining data not discarded to generate the thumbnail image corresponding to the original image. Berkner also discloses the X and Y pixel dimensions on page 4 and 5. Berkner however does not disclose identifying the portion of lines to be discarded based on a y_position value and a y_increment value; selecting pixels in lines not discarded that are within a neighborhood from a current x_position value and an x size value; combining values of selected pixels to generate a value of a current pixel of the thumbnail image; including one or more pixels in a first neighborhood that are within a boundary_ corresponding to the current x_position value and a position corresponding to a sum of the current x_position value and the x size value; generating a next current x_position value for a next pixel of the thumbnail image by: adding the x increment value to the current x position value corresponding to the current pixel of the thumbnail image, or adding the y increment value to a current y_position value corresponding to the current pixel of the thumbnail image and setting the next current x_position value to an x start value if a sum of the x increment value and the current x_position value exceeds a line width value, or when an x count value

of reduced size pixels exceeds an x count limit value, the x count value being a pixel number in a current line of the reduced size image; including pixels in a next neighborhood that are within a next boundary corresponding to the next current x position value for the next pixel of the thumbnail image and the next current x position value corresponding to a sum of the current x_position value and the x size value; and using repeatedly a last pixel when positions corresponding to the sum of a value of the current x position value and the x size value exceed a position of a last pixel in a current line of the original image. Therefore Claim 1 is allowable over prior art. Claims 5 and 6 depend on Claim 1 and therefore they are allowable.

Claim 7 recites same limitations and therefore they are allowable. Claims 11 and 12 depend on Claim 7 and therefore they are allowable.

Regarding Independent Claim 13 Berkener and Siegel discloses an apparatus , comprising: an Interpolator; a position controller coupled to the interpolator. Berkner and Siegel however do not disclose one or more position values coupled to the position controller discarding all data in an original image of an original document spanned by a portion of first dimensions of a plurality of dimensions that span the original document by processing the position values to skip over discarded data, and the interpolator combining data not discarded to generate a reduced size image of the original image; first increment values; second increment values; the position values including first position values and second position values, wherein the position controller: identifies the portion of

the first dimensions based on the first position values and the first increment values; identifies the data not discarded based on the first position values, the first increment values, the second position values and the second increment values, each pair of the first position and increment values corresponding to one of first dimensions, each pair of the second position and increment values corresponding to one of second dimensions which are the plurality of dimensions other than the first dimensions; selects data points of the data not discarded that are within a neighborhood from a current position value corresponding to the first and second position values, and combines selected data points to generate a current data point of the reduced size image; size values, one size value corresponding to each of the second dimensions, wherein the position controller: includes one or more data points in a first neighborhood that are within a boundary corresponding to the current position value and a position value corresponding to a sum of the current position values and corresponding size values, generates next current position values for a next data point of the reduced size image by: adding the second increment values to the current position values corresponding to the current data point of the reduced size image in the second dimensions, or adding the first increment values to the current position values corresponding to the current data point of the reduced size image in the first dimensions and setting the next current position values in the second dimensions to start values corresponding to the second dimensions if a sum of the second increment values and the current position values exceeds width

values corresponding to any of the second dimensions, or when a count value in one of the second dimensions of reduced size pixels exceeds a corresponding count limit value, the count value being a next data point position in a current line of the reduced size image; and including data points in a next neighborhood that are within a next boundary corresponding to the next current position and a position value corresponding to a sum of the current position values and the corresponding size values; and the position controller using repeatedly respective last data points in any of the second dimensions by keeping the current position value at the last data points when position values corresponding to the sums of the current position values and the corresponding size values exceed position values of the last data points in respective dimensions in the original. Therefore Claim 13 is allowable. Claims 17,18,20,21 and 22 are dependent on Claim 13 therefore they are allowable.

2.Claims 2-4,8-10,14-16,19 and 23-26 have been cancelled.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jayesh A. Patel whose telephone number is 571-270-1227. The examiner can normally be reached on M-F 7.00am to 4.30 pm (5-4-9).If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jingge Wu can be reached on 571-272-7429. The fax

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phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jayesh Patel

08/29/07

JP

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SUPERVISORY PATENT EXAMINER